

OIPE

RAW SEQUENCE LISTING
PATENT APPLICATION: US/09/910,430

DATE: 08/01/2001
TIME: 14:52:43

Input Set : A:\VANM229-001CP1seq.txt
Output Set: N:\CRF3\08012001\I910430.raw

3 <110> APPLICANT: Godfroi, Edmond
 4 Bollen, Alex
 5 Leboulle, Gerard
 7 <120> TITLE OF INVENTION: IDENTIFICATION AND MOLECULAR CHARACERIZATION OF
 8 PROTEINS, EXPRESSED IN THE IXODES RICINUS SALIVARY
 9 GLANDS
 11 <130> FILE REFERENCE: VANM229.001CP1
 C--> 13 <140> CURRENT APPLICATION NUMBER: US/09/910,430
 C--> 14 <141> CURRENT FILING DATE: 2001-07-19
 16 <150> PRIOR APPLICATION NUMBER: PCT/BE00/00061
 17 <151> PRIOR FILING DATE: 2000-06-06
 19 <150> PRIOR APPLICATION NUMBER: GB 9913425.6
 20 <151> PRIOR FILING DATE: 1999-06-09
 22 <160> NUMBER OF SEQ ID NOS: 34
 24 <170> SOFTWARE: FastSEQ for Windows Version 3.0
 26 <210> SEQ ID NO: 1
 27 <211> LENGTH: 194
 28 <212> TYPE: DNA
 29 <213> ORGANISM: Ixodes ricinus
 31 <400> SEQUENCE: 1
 32 ataccttcca cttagatccc ttccatcc gatatggta cggatgccat tgcatttcg 60
 33 tcgttgaaga ggtccttcc taaaataagac ccatccatat atgtgtgtt gcgaatgccg 120
 34 tcgacgttagc tcctgactag aaactcgtag gctaggacag aacttttctt caggtttagc 180
 35 gtaatgtcct cggt 194
 38 <210> SEQ ID NO: 2
 39 <211> LENGTH: 607
 40 <212> TYPE: DNA
 41 <213> ORGANISM: Ixodes ricinus
 43 <220> FEATURE:
 44 <221> NAME/KEY: misc_feature
 45 <222> LOCATION: (1)...(607)
 46 <223> OTHER INFORMATION: n = A,T,C or G
 48 <400> SEQUENCE: 2
 W--> 49 tacccngggaa tccaaaacca atttttattt gaaactccac gtcttcttca aggcgggtggc 60
 50 acctctgcat ttatgaagtt cgtcttggca ttttatttt tgcttcttcc attgcrgaac 120
 51 tcgcaaattgc acttcccggtc ctgtcgcat ttgcggccaa aagcgcattgg cattccttcc 180
 52 ggcagattaa ctttttcaaa ttacgggttc tgaaccaata atagatcgtag gcaatgttg 240
 53 tgctgtttgc gatttgcaaa ccagctgttag ccaccattgg actcaaagggt ggcacaaca 300
 W--> 54 tggcgccgaa ctgtaaaaaa caaattaagg ctncttgcataa acgcttag tcttggtagc 360
 55 ccgttagagg tcgatgtcgc gcctcgcat tgcaagtcacttca tcaagctctt 420
 56 ggagaaaaat gggtgcaacg gggggatcg cgtttgtact tgcaaacatt tgtggagacg 480
 57 gtaaaccwgt atttcgcgga actcagatgc tccagctgtga agctcgctt aataaaagtt 540
 W--> 58 gtaaattcga gtatngatga agaactgaaa ttcgaggcat ttagaaacac cacgagaagc 600
 59 agcggaa 607
 62 <210> SEQ ID NO: 3
 63 <211> LENGTH: 259
 64 <212> TYPE: DNA

ENTERED

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65 <213> ORGANISM: Ixodes ricinus
 67 <400> SEQUENCE: 3
 68 gatcctacgc ctgaaaaatga gtgtccatcg tcttcacata gtcacattt gtaattggta 60
 69 caagctccat tttcggtcagc gctgtttgtt atgctgccgc ctactttcc ttccggcactc 120
 70 cataagttaa accctgtcat tataagtgtt attgcgttat ctcggctgaa tgggttccat 180
 71 ttttctctta aataatcagc tgtccatatt ccatgttattt tggtcatgag tatgtgattc 240
 72 tcatcgata tcttcgcct 259
 75 <210> SEQ ID NO: 4
 76 <211> LENGTH: 170
 77 <212> TYPE: DNA
 78 <213> ORGANISM: Ixodes ricinus
 80 <400> SEQUENCE: 4
 81 ccactcgaaa atggaggcatt taaaacattt cagtaaccct gtgaactctg gctttgcaat 60
 82 gtaacagcaa aaacacttac agttgaaggg tgcagtgtca gacgctatgg aagttgcac 120
 83 cacgagcacr accctgatta ctactggcca cggtgcrttc cgggtcgtcc 170
 86 <210> SEQ ID NO: 5
 87 <211> LENGTH: 168
 88 <212> TYPE: DNA
 89 <213> ORGANISM: Ixodes ricinus
 91 <400> SEQUENCE: 5
 92 gtatgttacc atgtccaaacc cggttattaa atacaccaag tcgttaggatt tgtaggcagc 60
 93 tgcattggcc ttgacgtact ctctcaacgt tgccaaaggac tcaggccat aaatgttagtg 120
 94 gggttgaccc tgaactcttc gtaaaaaagcg ttctttctcc gtcgtgag 168
 97 <210> SEQ ID NO: 6
 98 <211> LENGTH: 247
 99 <212> TYPE: DNA
 100 <213> ORGANISM: Ixodes ricinus
 102 <400> SEQUENCE: 6
 103 ccgaamataa aacttagtct caccaatata cggttgccta acgcgaagga acaggcacaa 60
 104 atataactacg agcacgacat tctcaagaac acgggtcaccg gagttgtggac gagaattcac 120
 105 tcaaaatatc cggtccctga agatgaggga attacactga taatgacagg gtttgattta 180
 106 tggagtgccg atttaactgt aggccgcacc ataacaaaca gcgctgagaa aagcggagct 240
 107 tgtacga 247
 110 <210> SEQ ID NO: 7
 111 <211> LENGTH: 261
 112 <212> TYPE: DNA
 113 <213> ORGANISM: Ixodes ricinus
 115 <220> FEATURE:
 116 <221> NAME/KEY: CDS
 117 <222> LOCATION: (1)..(258)
 119 <400> SEQUENCE: 7
 120 atg cct ttt att ttc gtg gtg agc tta gtc att gtg gcc tgc atc gtg 48
 121 Met Pro Phe Ile Phe Val Val Ser Leu Val Ile Val Ala Cys Ile Val
 122 1 5 10 15
 124 gta gac aca gcc aac cac aaa ggt aga ggg cgg cct gcg aag tgt aaa 96
 125 Val Asp Thr Ala Asn His Lys Gly Arg Gly Arg Pro Ala Lys Cys Lys
 126 20 25 30
 128 ctt cct ccg gac gac gga cca tgc aga gca cga att ccg agt tac tac 144
 129 Leu Pro Pro Asp Asp Gly Pro Cys Arg Ala Arg Ile Pro Ser Tyr Tyr

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130	35	40	45	
132	ttt gat aga aaa acc aaa acg tgc aag gag ttt atg tat ggc gga tgc			192
133	Phe Asp Arg Lys Thr Lys Thr Cys Lys Glu Phe Met Tyr Gly Gly Cys			
134	50	55	60	
136	gaa gga aac gaa aac aat ttt gaa aac ata act acg tgc caa gag gaa			240
137	Glu Gly Asn Glu Asn Asn Phe Glu Asn Ile Thr Thr Cys Gln Glu Glu			
138	65	70	75	80
140	tgc aga gca aaa aaa gtc tag			261
141	Cys Arg Ala Lys Lys Val			
142	85			
145	<210> SEQ ID NO: 8			
146	<211> LENGTH: 86			
147	<212> TYPE: PRT			
148	<213> ORGANISM: Ixodes ricinus			
150	<400> SEQUENCE: 8			
151	Met Pro Phe Ile Phe Val Val Ser Leu Val Ile Val Ala Cys Ile Val			
152	1 5 10 15			
154	Val Asp Thr Ala Asn His Lys Gly Arg Gly Arg Pro Ala Lys Cys Lys			
155	20 25 30			
157	Leu Pro Pro Asp Asp Gly Pro Cys Arg Ala Arg Ile Pro Ser Tyr Tyr			
158	35 40 45			
160	Phe Asp Arg Lys Thr Lys Thr Cys Lys Glu Phe Met Tyr Gly Gly Cys			
161	50 55 60			
163	Glu Gly Asn Glu Asn Asn Phe Glu Asn Ile Thr Thr Cys Gln Glu Glu			
164	65 70 75			80
166	Cys Arg Ala Lys Lys Val			
167	85			
171	<210> SEQ ID NO: 9			
172	<211> LENGTH: 292			
173	<212> TYPE: DNA			
174	<213> ORGANISM: Ixodes ricinus			
176	<400> SEQUENCE: 9			
177	catcgmagcc atagtatatt ttgcacttgt cttccgtttc gtcgttagtag gaccgattcc 60			
178	acattttagt acaccagtca cttatatctt gcgggcggtg cttgcatttg tcctgaacaa 120			
179	atcttccaca gcgcttgtcg cacgcctcct gggaatagaa cgcgttctct cctccgcatac 180			
180	tccatttggaa atcatagaaa catctttcag tttgaatatt gttagcgataa taatcggtat 240			
181	cagtttcttt gcatggcctt gggagggggtt tggcgcaggg gccgtattca gg			292
184	<210> SEQ ID NO: 10			
185	<211> LENGTH: 270			
186	<212> TYPE: DNA			
187	<213> ORGANISM: Ixodes ricinus			
189	<400> SEQUENCE: 10			
190	ggtaatagtt gtcaaattcc attaatgtat cctgaaatgt gaccatatct ttgtttcccc 60			
191	tgtaaaatct cataaaaggc tggatgtgtt ccttaagaag tgtaacagcc acgatggtca 120			
192	atctcacgga tggatgtgt acacttttat atctcagggtt tgccgacatt gccattacag 180			
193	ataaaatagtt gataatttct ttcttggtat agttgtaagc agcgcattgtt gttgcataa 240			
194	gcaccacatg cacttcaggc aatatggttt			270
197	<210> SEQ ID NO: 11			
198	<211> LENGTH: 316			

RAW SEQUENCE LISTING
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199 <212> TYPE: DNA
 200 <213> ORGANISM: Ixodes ricinus
 202 <400> SEQUENCE: 11
 203 agaaaagcagt catattggcc atcccacaggc cacaatggtt ctctccttga cctggcatcg 60
 204 ggattcgaag tatggtgca gtttcacgtatg tggaaatacaa cacgaaatgt gttcgttgg 120
 205 acgccaatacg gggttctcgaa aagaacata tcatttggag gaaggcgttag tccgtcgaga 180
 206 tatccccaaa ctagggtttc attgcgtcgaa aaccaactgc ccccaacttct gtatgtgtac 240
 207 tgtaaggagt rgttgaacgg ygtcctctt cccataaacct tgaagtttc acactgcaga 300
 208 ggattaccc tcacaaa 316
 211 <210> SEQ ID NO: 12
 212 <211> LENGTH: 241
 213 <212> TYPE: DNA
 214 <213> ORGANISM: Ixodes ricinus
 216 <400> SEQUENCE: 12
 217 aaggttagcaa ggggtggtagg ctttcctcac aaagagtctg gcttccgtga taaccatatac 60
 218 cattcctcac cgtatacccg tcataccaaacg tcaattgtgt tacaaggcag ataatgtcaa 120
 219 aatggctctg gtccctataa tagtcggata atgtagaaat cgctccatgt ggccaaatag 180
 220 atgttcctct ttcaactgt tttaacttta attgttagtgc cgccctcggtc tcgaggtatg 240
 221 t 241
 224 <210> SEQ ID NO: 13
 225 <211> LENGTH: 636
 226 <212> TYPE: DNA
 227 <213> ORGANISM: Ixodes ricinus
 229 <220> FEATURE:
 230 <221> NAME/KEY: misc_feature
 231 <222> LOCATION: (1)...(636)
 232 <223> OTHER INFORMATION: n = A,T,C or G
 234 <400> SEQUENCE: 13
 W--> 235 ttccccnaat tggccttgcg anncttgcgaa gtcgacncta gaggctccga agatggacag 60
 236 attgcgcattt aaatatttga aatcgagcag aatgtgttattt ttaggagcga ttatatttgt 120
 237 ccaccccgattt tgaaagtgcg aagaaacgcaca gtgggttacc gtaacaagta caccagagtt 180
 238 cctgtaaattt ttaccgtcgaa agttgccatg ctgattgata agtattttata cwaggagttc 240
 239 aagaacgaga gccacatcgat accgtacccgt gctatgatac tgactttgtat aaatctgagg 300
 240 tatgccgaca cacatgaccc gtacatccag tttcttctca cacaagtgtt cgtggggaaaw 360
 241 wctggcgatc atatggccca catgcccttc cgacgacgt tcttggccat ggcggccat 420
 242 tatgcgcattt tttagggccaa tmacaccccttc cacttgcata tctccgttgc tggatagtgt 480
 243 aagtggggcc attgcatttgcgatc catgtggaa gggcccttcc tccaaatggggaa aaccggccat 540
 W--> 244 ttaggtttgc ttccccaaatcgccaaatttta antttaaaaaaa aaaattcccc ccccaaaaaat 600
 245 taatttttttt taaaggtggaa ttgtgatttc tccgtt 636
 248 <210> SEQ ID NO: 14
 249 <211> LENGTH: 432
 250 <212> TYPE: DNA
 251 <213> ORGANISM: Ixodes ricinus
 253 <400> SEQUENCE: 14
 254 gatccccaaa gtccccctgg arcgacgggtt acatcatgag ctacgtcata aacttcaaaa 60
 255 accacttcaa attttctccc tgctgtgtatg aatcaattcg attcgatcgca cgagagcg 120
 256 actgcctcta caaatgtcaat gccaaggatg ctgttttttttgc cctaataatct ctggccggat 180
 257 ttaggatatac gccaacgagt ttctgtcaat ttatgcatttgc gctttaccgc ggtgtccata 240
 258 gcgataagaaa agcaggtctg tccgatttgcg tacagacgtg tagaacggcc aaaaatcgac 300

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Input Set : A:\VANM229-001CP1seq.txt
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259 gaggaggcta ccattcatgg attcacgcgg cacttgacgg ggttccttgc gacaagagaa 360
 260 accccaagaa ggcctgcata aacgggaaat gcaccctcct taagagcatg ccccacagaa 420
 261 cgtaccggga at 432
 264 <210> SEQ ID NO: 15
 265 <211> LENGTH: 466
 266 <212> TYPE: DNA
 267 <213> ORGANISM: Ixodes ricinus
 269 <400> SEQUENCE: 15
 270 agggcgttct ttgcttyaca gggAACRGCATatgggccac gtgacaccttc aatgaccgct 60
 271 ccaaatactgg cataggttga aytgcagaat cgtggcgac caggcctycc acattcactc 120
 272 catcctcgat ttttaggatg actgcccaca tttttttgt atcgtggatc aggtgtttgt 180
 273 tatggccgat ggcgtcgaca taagtattga ccaacgatcg gccgaatgtat tacggctcac 240
 274 caaacacatc aaatacccccc gtcaagtcaa gagctggaaag cacaagatc agtatgtaca 300
 275 agataccctt ggaaatcttt cccgaagttc accttgttgc ggacagcaca tttgccaaag 360
 276 cttaattt tgacgtgtac aaagtaacgc gttacttcgc agtgcttaca aatgcggcta 420
 277 atcttaggta tgccagttc gtatccaa aagtacagct caggat 466
 280 <210> SEQ ID NO: 16
 281 <211> LENGTH: 377
 282 <212> TYPE: DNA
 283 <213> ORGANISM: Ixodes ricinus
 285 <400> SEQUENCE: 16
 286 ctcgtccaca catttccta aaatgcaagc ctttttttc ccacaaggatc taccgtcgac 60
 287 tacactgagt ctccaataaa tatgtttcc ggtcaattt accttgcaat ctttgacgccc 120
 288 gtatgttaggg tcagcgtgcata tgccttcgtc gtacatatac accctctgac agtagttgc 180
 289 cagtgttgc atcctaccat gaagcttgc cgaacgtttt attgttttgc tcgtgtatcg 240
 290 ttctctaagg catttgcattt ccggacgggtt gtagaggatc ctgacttctc gctggcagca 300
 291 ataagagaac tgataactggc gtcgtcttgc catcttgcata ctcatgaggt atccgtcatc 360
 292 ccatgggcag tccgcag 377
 295 <210> SEQ ID NO: 17
 296 <211> LENGTH: 1670
 297 <212> TYPE: DNA
 298 <213> ORGANISM: Ixodes ricinus
 300 <220> FEATURE:
 301 <221> NAME/KEY: CDS
 302 <222> LOCATION: (54)..(1517)
 304 <400> SEQUENCE: 17
 305 aaggaagaag ttaggcgtat gctttggaa accggtcatc ctcgaaacca gag atg 56
 306 Met
 307 1
 309 tcg gga ctc agc ctg aaa ttg tgg att gta gcg ttc ttt tct ttc tgc 104
 310 Ser Gly Leu Ser Leu Lys Leu Trp Ile Val Ala Phe Phe Ser Phe Cys
 311 5 10 15
 313 ttg gcc gag aaa gag cat ggg atc gtg tac ccc agg atg ctt gaa agc 152
 314 Leu Ala Glu Lys Glu His Gly Ile Val Tyr Pro Arg Met Leu Glu Ser
 315 20 25 30
 317 aga gca gca act gga gag aga atg ctt aaa atc aac gat gac ctg acg 200
 318 Arg Ala Ala Thr Gly Glu Arg Met Leu Lys Ile Asn Asp Asp Leu Thr
 319 35 40 45
 321 ttg acg ctg cag aag agt aag gtc ttc gct gac gac ttt ctc ttc agc 248

Use of n and/or Xaa has been detected in the Sequence Listing.
 Review the Sequence Listing to insure a corresponding explanation is presented in the <220> to <223> fields of each sequence using n or Xaa.

VERIFICATION SUMMARY
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Input Set : A:\VANM229-001CP1seq.txt
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L:13 M:270 C: Current Application Number differs, Replaced Application Number
L:14 M:271 C: Current Filing Date differs, Replaced Current Filing Date
L:49 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:2
L:54 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:2
L:58 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:2
L:235 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:13
L:244 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:13
L:563 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:20
L:564 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:20
L:565 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:20
L:589 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:21
L:617 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:23
L:875 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:30